

Figure 1

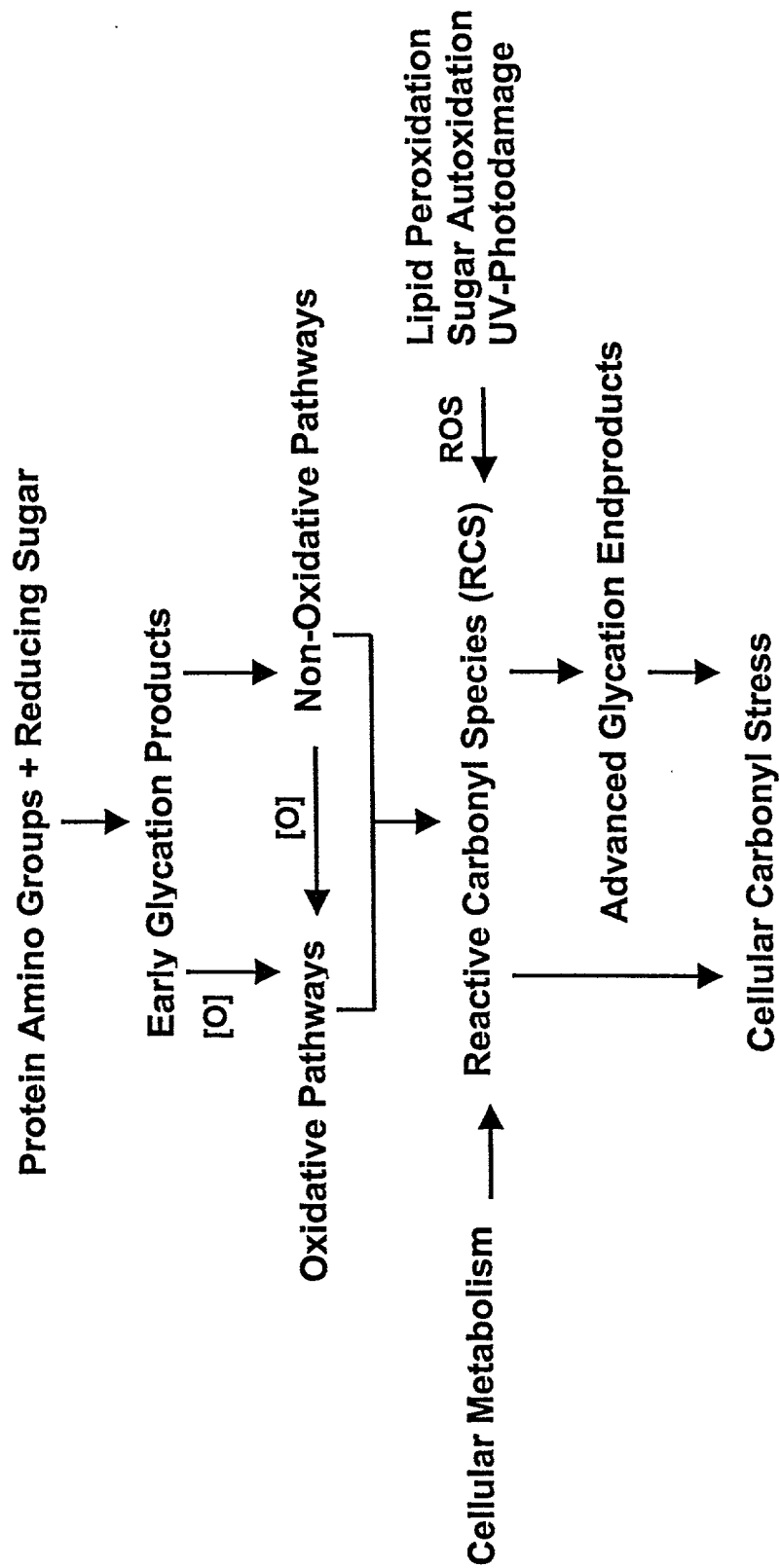
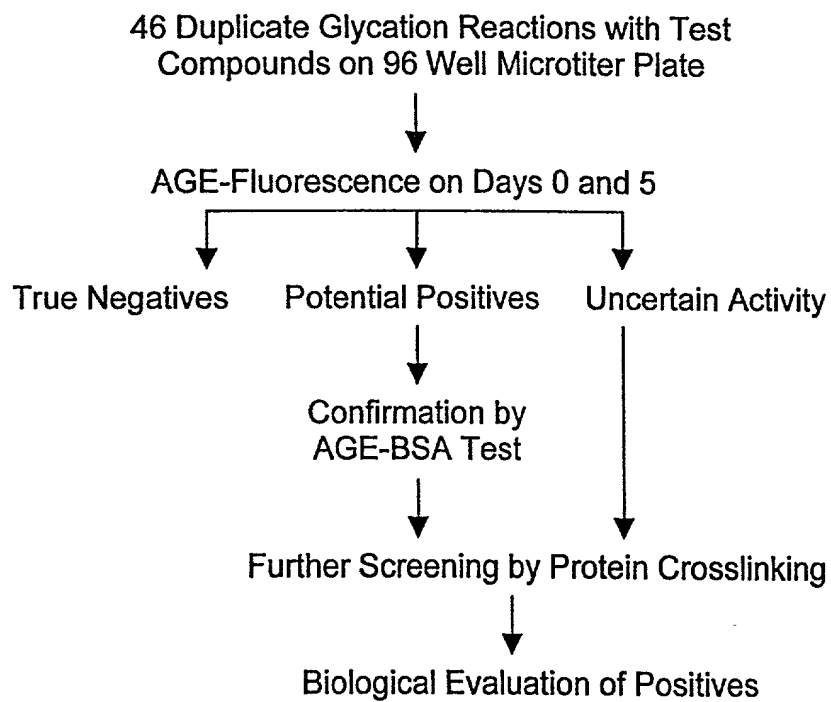
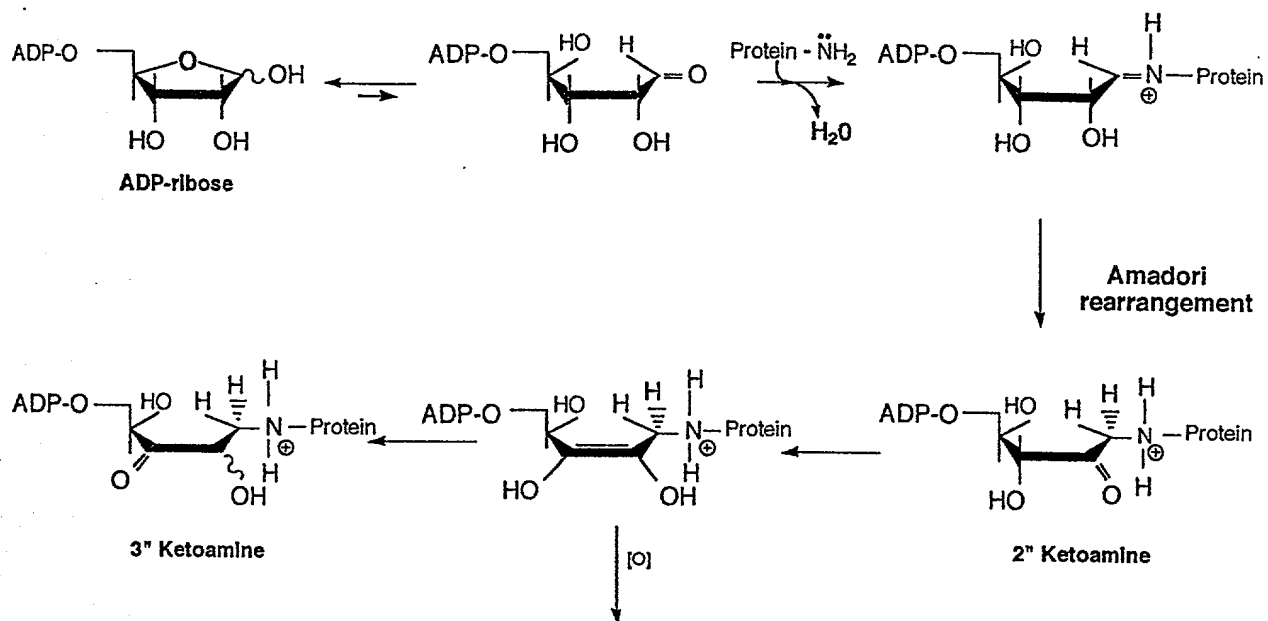


Figure 2



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**Figure 3**

AGE-Inhibitor Screening:  
Time course of AGE-fluorescence

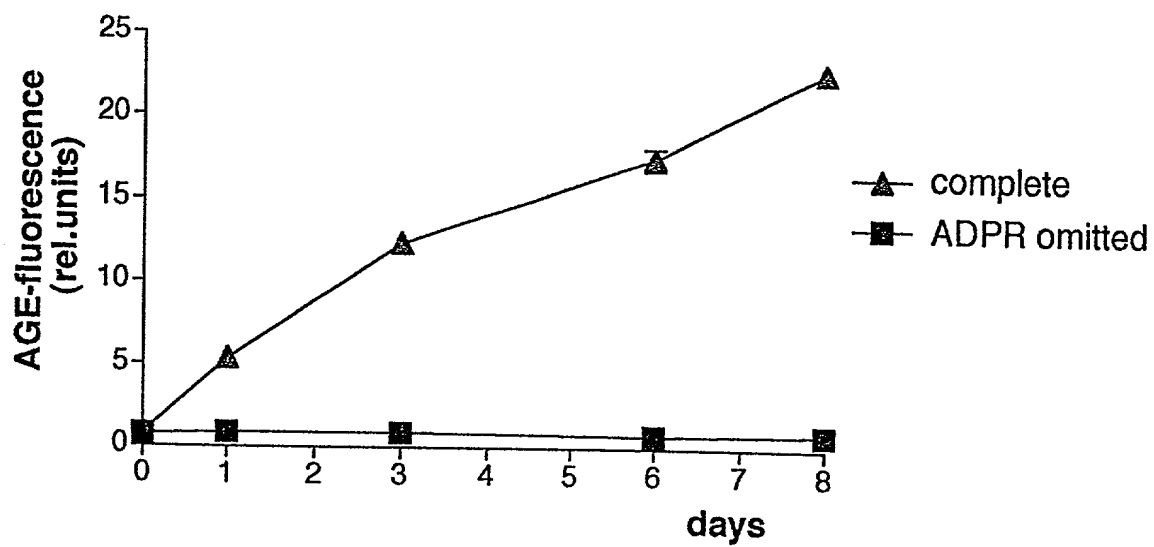


Figure 4

Fluorescence yield of various sugars and histone H1 over 7 days

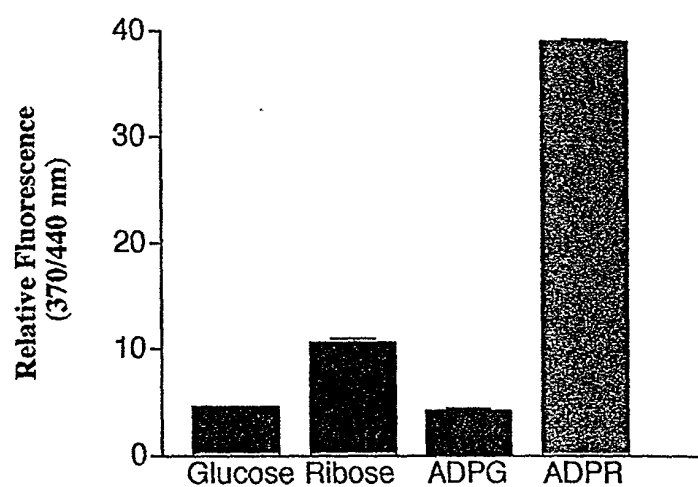


Figure 5

Effectiveness of histone H1 as a target protein for glycation

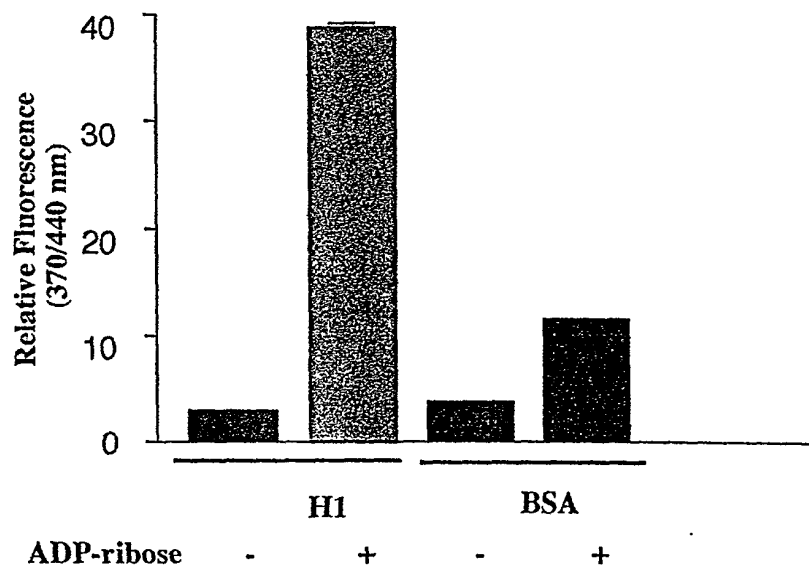


Figure 6

Aminoguanidine inhibits glycation of histone H1 by ADP-ribose

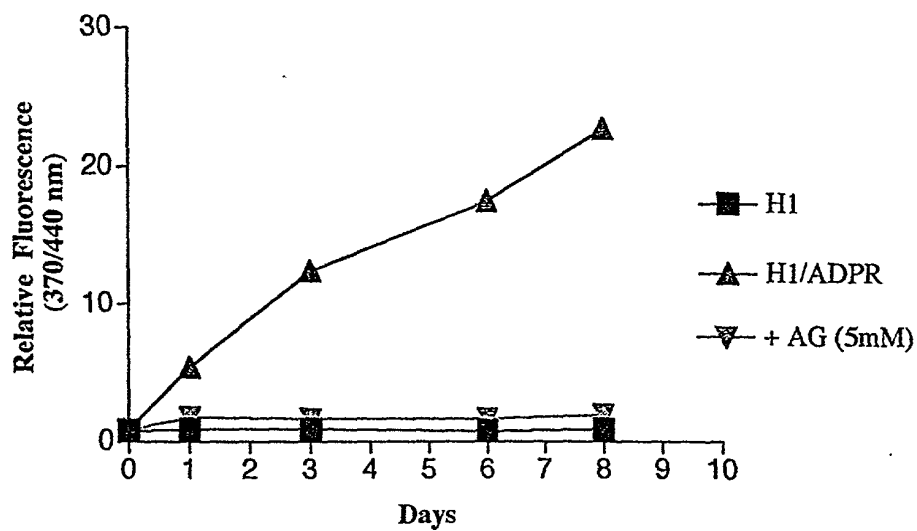
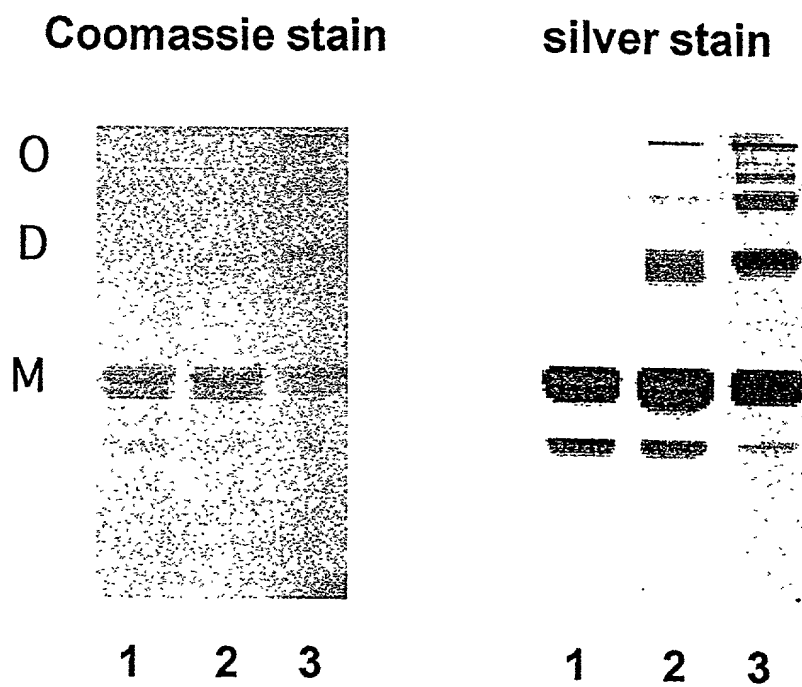


Figure 7



**Figure 8**



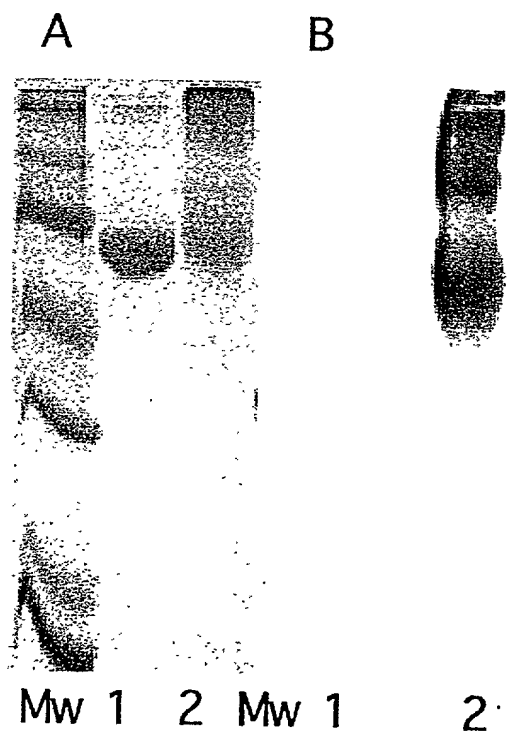


Figure 9

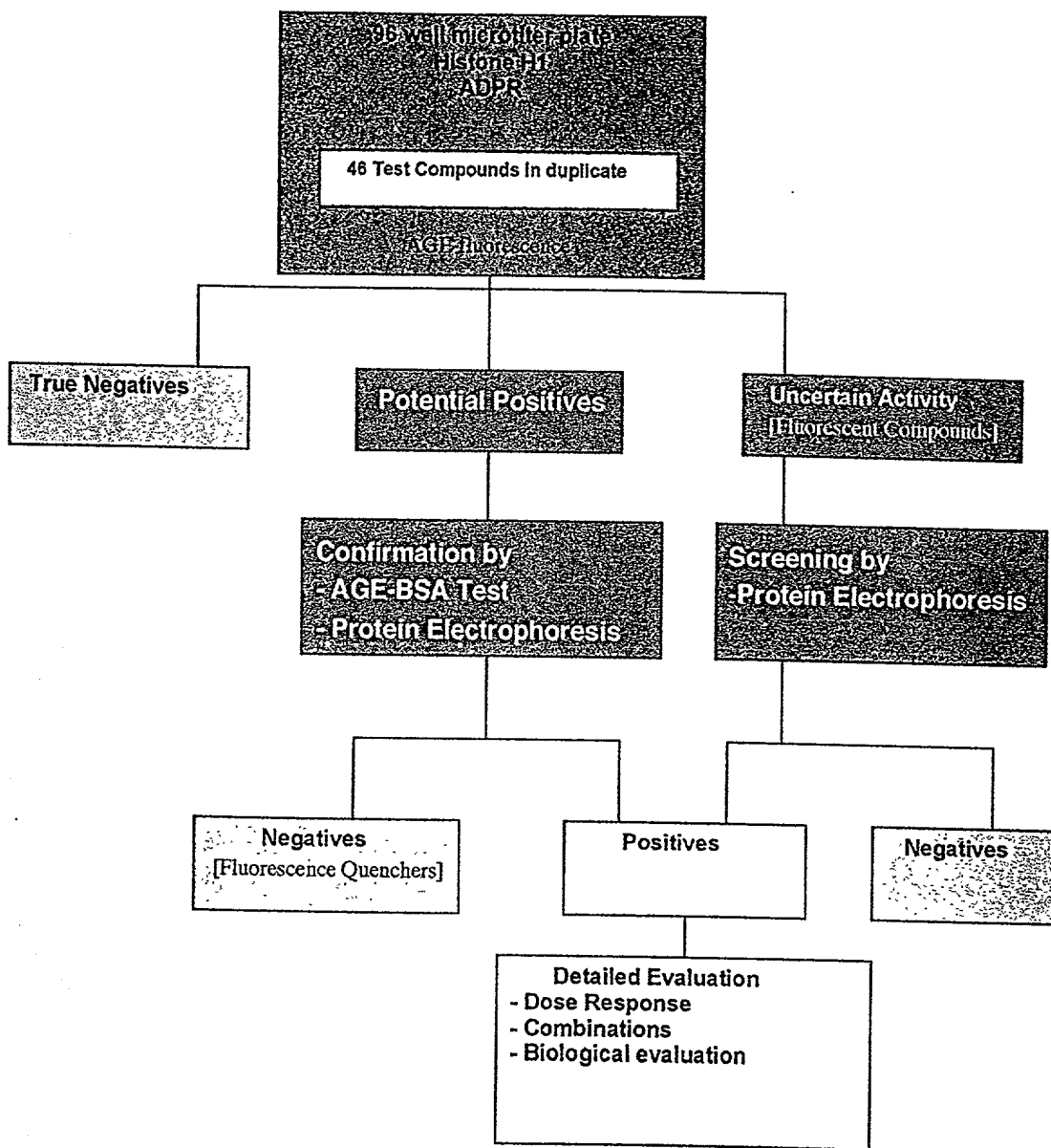
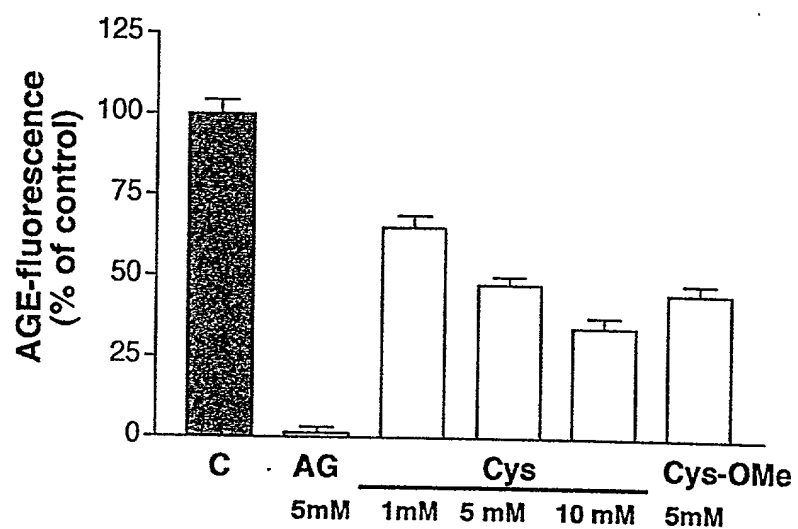


Figure 10

**AGE-Inhibitor Screening**  
**Example: L-cysteine**



**Figure 11**

## AGE-Inhibitor Screening: True Negatives

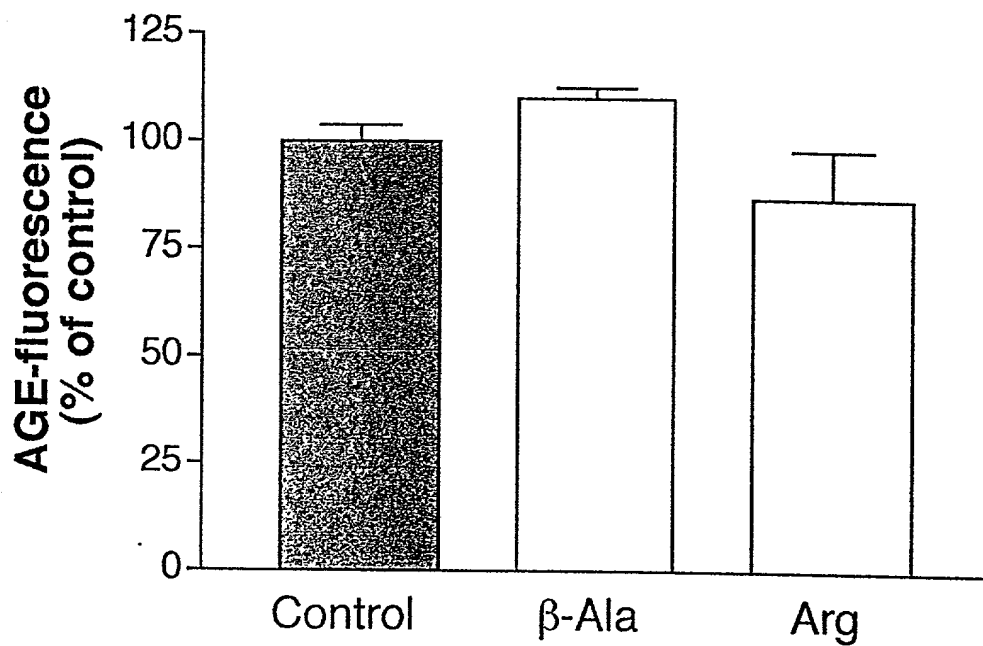


Figure 12

### Confirming Potential Positives I: the AGE-BSA Test

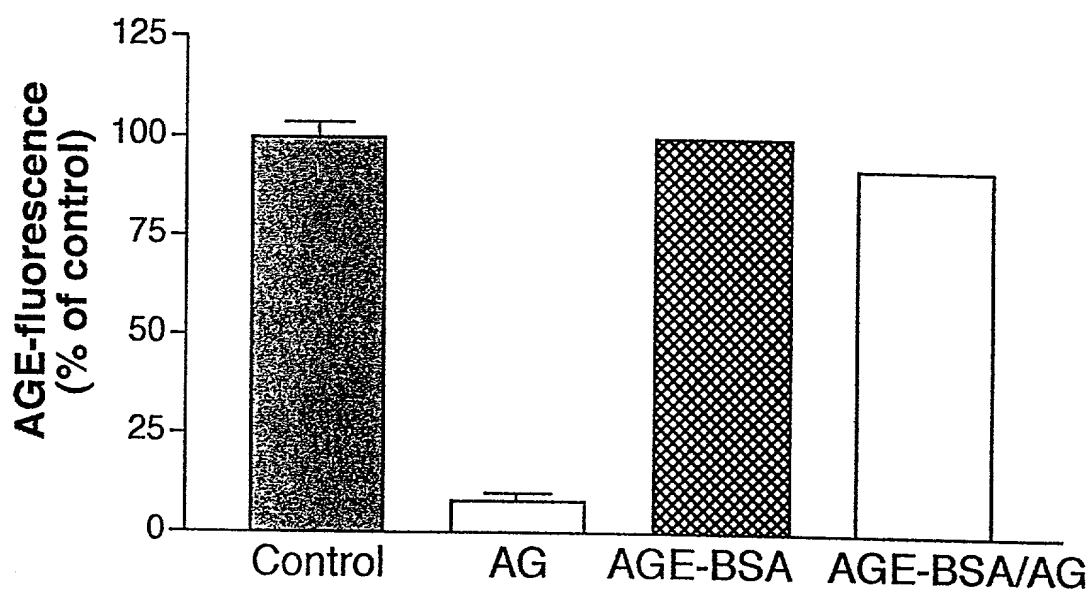


Figure 13

## Confirming Potential Positives II: Protein Electrophoresis

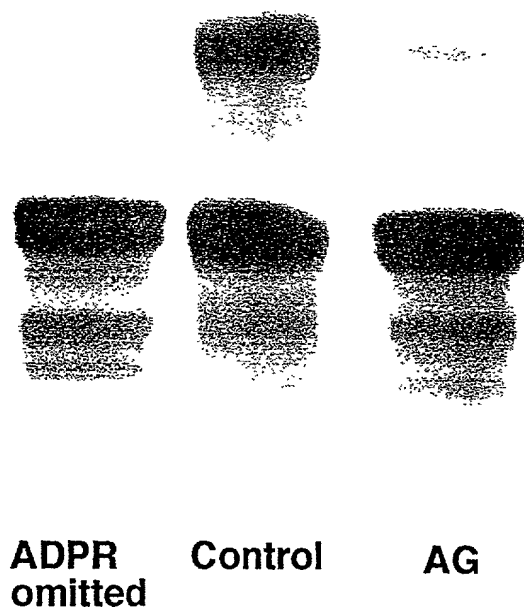


Figure 14

Figure 15

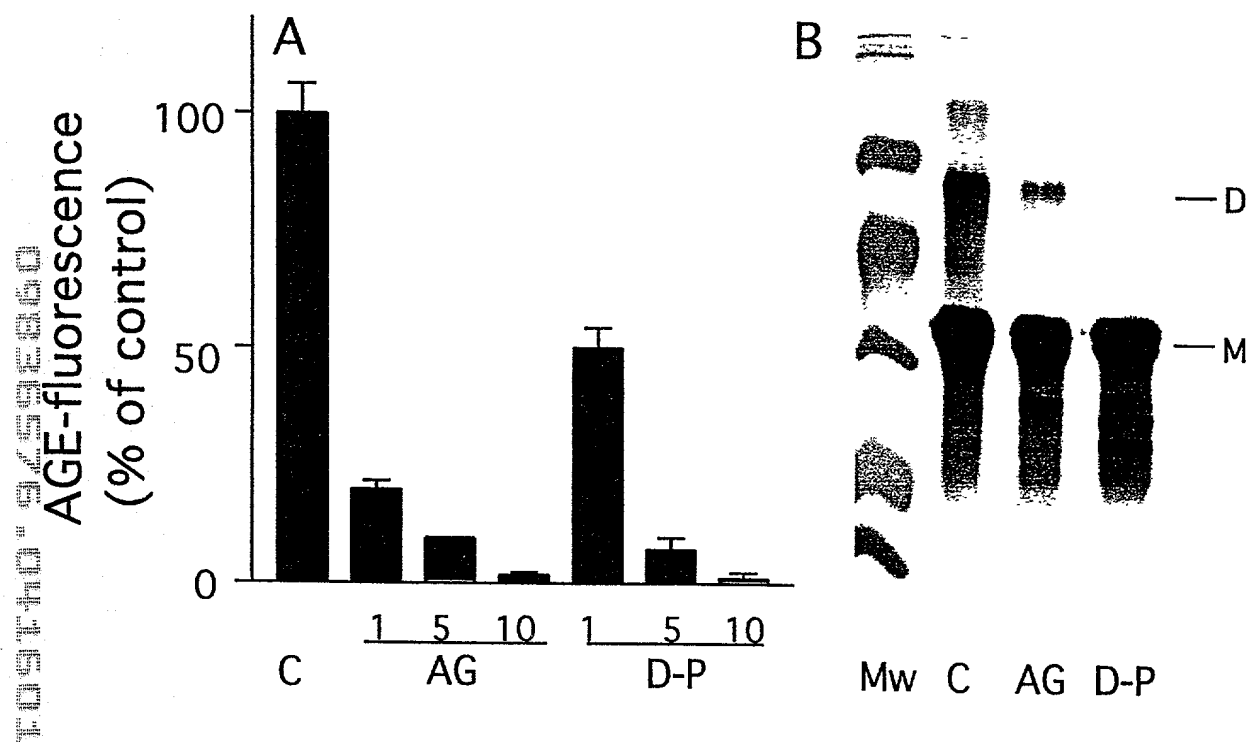
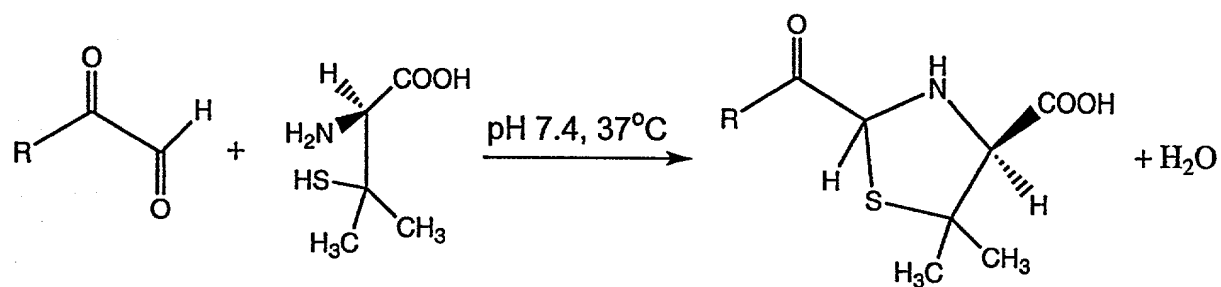


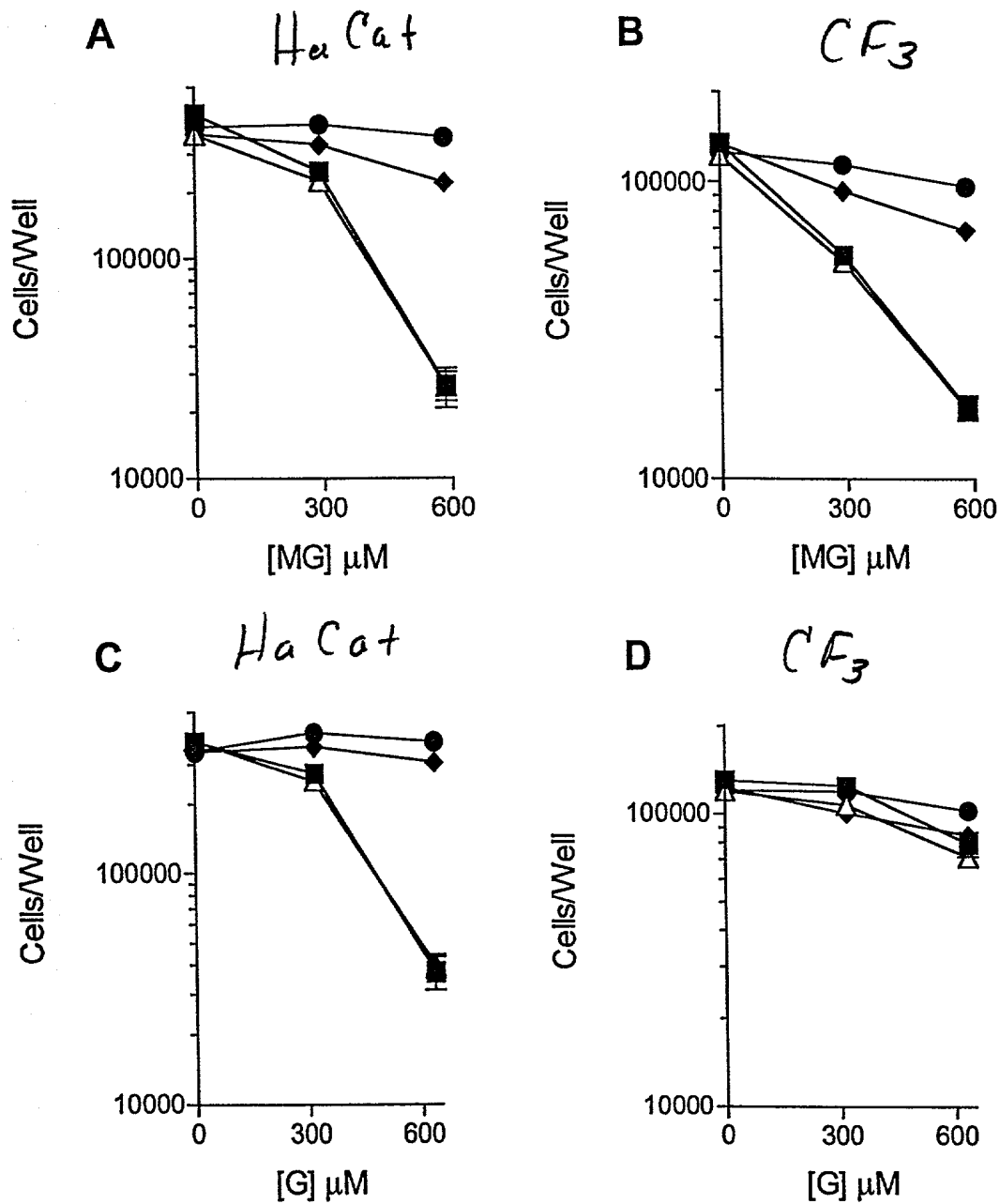
Figure 16



$\text{R} = \text{CH}_3 \text{ or } \text{C}_6\text{H}_5$

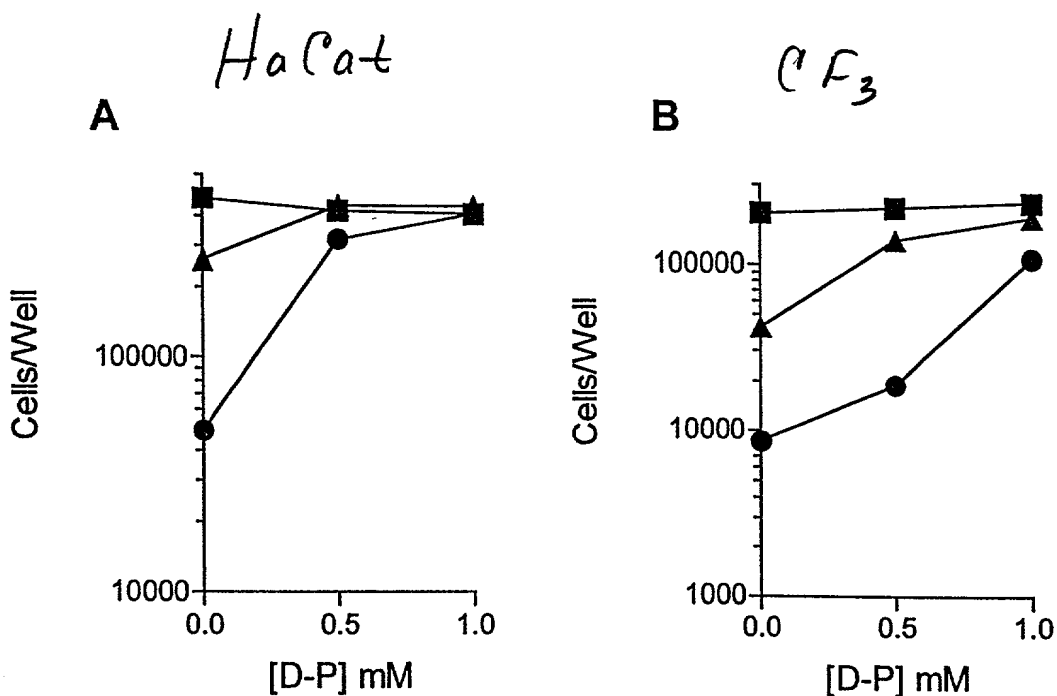


Figure 17



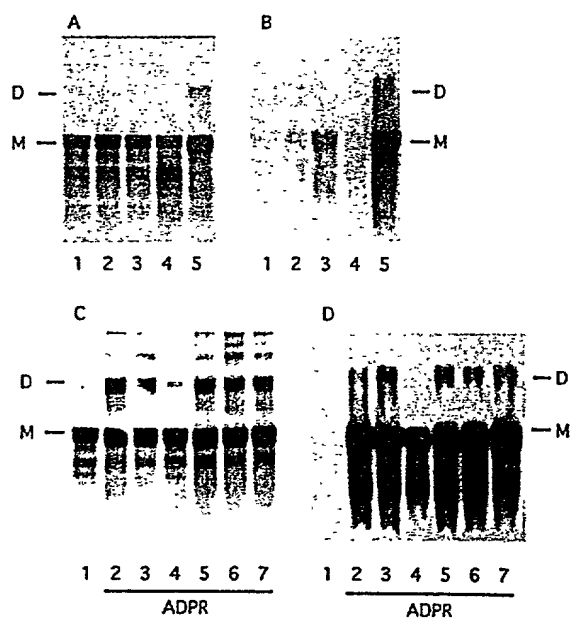
■ : d-dicarbonyl alone  
 $\Delta$  = L-alanine (1mM)  
 $\blacklozenge$  = aminoguanidine  
 $\bullet$  = D-penicillamine

Figure 18



■ : no methylglyoxal  
 ▲ : methylglyoxal (300 μM)  
 ● : methylglyoxal (600 μM)  
 D-P : D-penicillamine

Figure 19



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